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**AIR SYSTEM
ACCESSORIES**

**BULLETIN 70
(8-08)**

AIR SYSTEM ACCESSORIES

TAMPER-PROOF AIR PRESSURE REGULATOR

With the "key" removed from the knob, it is impossible to tamper with the air pressure adjustment. This unique feature makes this regulator superbly suited for use on airport refuelers for adjusting air reference pressures. An internal relief valve makes it self-relieving to prevent "creep" of the outlet pressure. Will control pressure with great accuracy between 10 and 200 psi. Price includes side-mounting hardware.

- Connections are 1/2" FNPT
- Maximum inlet pressure is 300 psig
- Outlet pressure adjustable to 125 psig
- Zinc body
- Nitrile seals



GTP-1121-1

Optional aluminum knob with key



GTP-2954C

Optional pressure gauge 0-160 psi

HOW TO ORDER

Aluminum knob
Plastic knob

Side Mount
GTP-1121A
GTP-1121P

Panel Mount
GTP-1121-2A
GTP-1121-2P

Note: Add "-G" for pressure gauge.

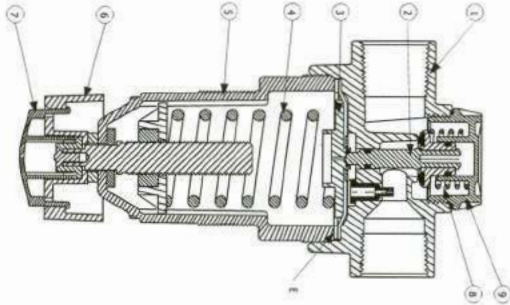
AIR FILTER WITH AUTOMATIC WATER DRAIN

Designed to remove dirt and water from truck air systems, this filter will automatically drain collected water. The polyethylene filter element is rated at 5 microns. Steel shatter guard and manual drain cock included.

- Connections are 1/4" FNPT
- Maximum inlet pressure is 150 psi
- Minimum inlet pressure is 15 psi
- Polycarbonate plastic bowl
- Internal automatic drain



GTP-1923



With care in its installation and maintenance, you can expect it to have a long and economical service life. Before you go any further, please take a few minutes to look over this information, then save it for future reference and for the useful service information it contains.

KEY	DESCRIPTION	R100-2	R100-3	R100-4	R100-6
1	Head Assembly	KAM37-01-2	KAM37-01-3	KAM37-01-4	KAM37-01-6
2	Valve Assembly	AS3-10M	AS3-10M	AS3-10M	AS3-10M
3	Diaphragm Assembly	A37-03	A37-03	A37-03	A37-03
4	Main Spring	37-153	37-153	37-153	37-153
5	Dome Assembly	A37-02P	A37-02P	A37-02P	A37-02P
6	Knob Adjustment Kit	K437-62	K437-62	K437-62	K437-62
7	Adjusting Key	37-63	37-63	37-63	37-63
8	Valve Spring (not shown)	KV35-11M	KV35-11M	KV35-11M	KV35-11M
9	Cap Kit	K37-57	K37-57	K37-57	K37-57

Installation Procedures

INSTALLATION:

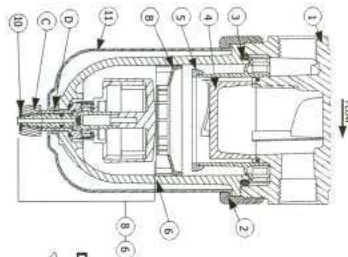
Install the units as near as possible to the device they are to serve. Use the size regulator that corresponds to the maximum flow required. Filters should be installed immediately ahead of the regulator to insure a supply of clean air. Pressure regulators reduce the supply air pressure to the required operating pressure by spring #4 loading on diaphragm assembly #3. Reduced operating pressure is sensed by the diaphragm assembly which opens and closes the supply valve #2 to maintain the set pressure with flow through the regulator. Overpressure is relieved when the force due to the pressure on the top of the diaphragm exceeds the spring force acting on the bottom of the diaphragm.

ADJUSTMENT & MAINTENANCE:

Clockwise turning of adjustment knob #6 will increase secondary pressure. Pull adjusting key #7 down for non-adjustment, remove key for tamper resistant. If air supply is kept clean, the regulator should provide long periods of uninterrupted service. Erratic operation or loss of regulation is usually due to dirt or a leaking seal.

REPAIR INSTRUCTIONS:

Shut off air supply, reduce spring head to zero by turning the adjusting knob #6 counterclockwise. The dome can be removed by unscrewing it counterclockwise. The diaphragm assembly #3 can now be removed. The supply valve assembly #2 can be removed by unscrewing the cap #9. If the regulator cannot be repaired by cleaning, the operating parts should be replaced. See parts list. When the regulator is reassembled, make sure all seals are correctly located. The clamping washer "E" should be between the diaphragm and the dome. The dome should be tightened with a strap wrench.



DRAIN STYLES

Old style drain



New style drain



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KEY	DESCRIPTION	FD100-2 F100-2	FD100-3 F100-3	FD100-4 F100-4	FD100-6X F100-6X
1	Head	M103-01-1/4	M103-01-3/8	M103-01-1/2	M103-01-3/4
2	Bowl Ring	MS103-80	MS103-80	MS103-80	MS103-80
3	C-Ring, Bowl	28-10	28-10	28-10	28-10
4	Element Kit	K4103-3PE	K4103-3PE	K4103-3PE	K4103-3PE
5	Sleeve Assembly	103-10P	103-10P	103-10P	103-10P
6	AID Plastic Bowl Assy Kit	AFD103-6M	AFD103-6M	AFD103-6M	AFD103-6M
7	Manual Plastic Bowl Assy Kit	AF103-6M	AF103-6M	AF103-6M	AF103-6M
8	Automatic Drain Kit (no bowl assembly)	NEW: D380	OLD: order kit (5) or (13)	OLD: order kit (7) or (13)	OLD: order kit (7) or (13)
9	Manual Drain Kit (no bowl assembly)	NEW: A802-32	OLD: KX103-98 (not shown)	NEW: A802-32	NEW: A802-32
10	Retaining ring	NEW: 802-30	OLD: KX103-98 (not shown)	NEW: 802-30	NEW: 802-30
11	Sinterguard	103-60	103-60	103-60	103-60
12	Manual Metal Bowl Assy Kit (not shown)	ABF103-117	ABF103-117	ABF103-117	ABF103-117
13	AID Metal Bowl Assy Kit (not shown)	ABFD103-117	ABFD103-117	ABFD103-117	ABFD103-117

Installation Procedures

INSTALLATION:

Depressure and lockout air pressure. Install the filter as near as possible to the device it is to serve, following the arrow direction on filter head for air flow. Filters should be installed upstream of any regulators, lubricators or valves in the air line. Flexible tubing (3/16" I.D.) can be installed on the drain stem of the automatic internal drain to remove discharges. Remove retaining ring (#10) and pull off knob (C). Push tubing over drain stem.

ADJUSTMENTS:

Manual Drain: When looking at bottom of product, turn knob (C) clockwise to manually drain filter.

Automatic Internal Drain: The drain can be adjusted to compensate for differing operating conditions by adjusting the knob (C). For low flow or low pressure drop, turn the knob until the drain just closes. For high flows or high pressure drop, turn the knob (C) clockwise for reduced drain action. Turning the knob clockwise to the stop puts the drain in a manual shutoff position. Turning the knob (C) counter-clockwise will manually drain the filter.

MAINTENANCE:

To clean or repair unit, depressure and lockout air pressure. Remove bowl assembly by rotating bowl ring (#2) counter-clockwise. The filter element is removed by pulling off Sleeve Assembly (#5). Replace old element with new and reassemble. Do not clean elements, they must be replaced. Sintered bronze elements may be cleaned by soaking several hours in a suitable solvent, then blowing them out in reverse direction to normal flow with compressed air or steam. For manual drain models, periodically drain to discharge accumulated liquids. To service automatic internal drain: Remove bowl ring (#2) by turning counterclockwise. Remove bowl assembly. Remove bowl baffle (B). Remove retaining ring (#10) and pull off knob (C). Remove drain nut (D). The drain can then be removed, disassembled, and cleaned with soap and water. Torque drain nut (D) 5-15 in-lbs. Torque Bowl Ring (#2) hand tight.

Plastic bowls may be cleaned with soap and water. Replace plastic bowls with metal if any signs of crazing or cracks are observed.